

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): A method for communicating across a heterogeneous network ~~having components including a sender and a receiver~~ with dissimilar data structure definitions, comprising:

prefixing an encoded data structure with a length value that reflects ~~the size a size of the encoded data structure, the encoded data structure being transmitted from the sender to the receiver.~~

2. (currently amended): The method of Claim 1, further comprising, ~~when the receiver is a down-level receiver, decoding the encoded data structure by the receiver via reading, a down-level receiver reads the length value and decoding the encoded data structure according to based on~~ the receiver's data definition.

3. (currently amended): The method of Claim 2, further comprising, upon completion of decoding, the receiver determining ~~the amount an amount~~ of the encoded data structure that was decoded and skipping ~~a remainder the remainder~~ of the encoded data structure according to the length value.

4. (original): The method of Claim 3, wherein the method is implemented through instructions on a computer-readable medium, for communicating data between programs along a data communication path.

5. (currently amended): The method of Claim 1, further comprising, ~~for if the sender is a down-level sender and the receiver is an up-level receiver, and~~ if the up-level definition of a structure has more data elements than the down-level definition of the structure, for built-in type data fields, automatically assigning a default value to any field for which the received data has provided no value, and, for derived type data fields, calling an initialization routine which assigns a default value to any

built-in type data field or calls the initialization routine for a derived type data field.

6. (original): The method of Claim 5, wherein the method is implemented through instructions on a computer-readable medium, for communicating data between programs along a data communication path.

7. (currently amended): A method for communicating across a heterogeneous network ~~having components including a sender and a receiver~~ with dissimilar data structure definitions, comprising:

~~for when the sender is an up-level sender and the receiver is a down-level receiver~~, if the up-level definition of a structure has more data elements than the down-level definition of the structure, then prefixing an encoded data structure with a length value that reflects ~~the size a size~~ of the encoded data structure and decoding the encoded data structure in which ~~a down level~~ ~~the down-level~~ receiver reads the length value and ~~decoding decodes~~ the encoded data structure according to the receiver's data definition and upon completion of decoding, the receiver determining ~~the amount an amount~~ of the encoded data structure that was decoded and skipping ~~a remainder the remainder~~ of the encoded data structure according to the length value;

~~for when the sender is a down-level sender and the receiver is an up-level receiver~~, if the up-level definition of a structure has data elements than the down-level definition of the structure, for built-in type data fields, automatically assigning a default value to any field for which the received data has provided no value, and, for derived type data fields, calling an initialization routine which assigns a default value to any built-in type data field or calls the initialization routine for a derived type data field; and

~~when the sender is an up-level server and the receiver is a down-level client~~, if the up-level definition of a structure requires more data elements than the down-level definition of data elements, then following a set of predetermined rules which include extending only data structures which are passed from ~~a server to a client~~ ~~the up-level server to the down-level client~~; ensuring ~~that a that the~~ down-level client's ignorance of extended data causes no ill effects in that client's operational behavior; allowing down-level clients to interact with up-level servers and disallowing up-level

clients from interacting with down-level servers; and, in cases where extensions are needed for data structures passed from a client to a server, defining a new data structure that includes both old data fields and new data fields.

8. (original): The method of Claim 7, wherein the method is implemented through instructions on a computer-readable medium, for communicating data between programs along a data communication path.

9. (original): The method of Claim 8, wherein the method is practiced without creating new data structures.

10. (original): The method of Claim 8, wherein the method does not use a lock-step migration strategy.

11. (original): The method of Claim 8, wherein the built-in type includes at least one of the group consisting of integer, floating point, Boolean, and string.

12. (original): The method of Claim 8, wherein the derived type includes at least one of structure and union.

13. (canceled)

14. (original): The method of Claim 8, wherein the method is implemented using a procedure calling model for distributed applications and a standard representation for data in the network to support heterogeneous network.

15. (original): The method of Claim 14, wherein the procedure calling model is defined by the Remote Procedure Call (RPC) package and the standard representation of data is accomplished through the External Data Representation (XDR).

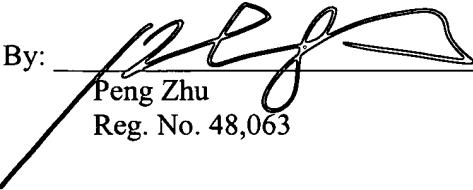
CONCLUSION

In light of the foregoing, Applicant respectfully requests that a timely Notice of Allowance be issued in the case.

Respectfully submitted on behalf of
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Dated: April 8, 2005

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